

IN THE ABSTRACT:

For the purpose of providing a static magnetic field generating apparatus employing permanent magnets that allows easy adjustment of a static magnetic field, eight grooves ~~represented by grooves 310 and 320~~ are provided in a columnar yoke 12 and the other opposing columnar yoke, and the shape or material of insert members ~~312 and 322~~ is changed to modify magnetic resistance of the columnar yoke 12 and the other opposing columnar yoke when the insert members ~~312 and 322~~ are fitted; thus, magnetic flux formed in a space between permanent magnets ~~30 and 31~~ can be easily modified, and hence, a static magnetic field can be easily adjusted.